Applicant:	Stein et al.
Title:	SINGLE INSTRUCTION MULTIPLE DATA ARRAY CELL
Attorney:	R. Stephen Rosenholm
Serial No.:	10/090,941
Docket No.:	AD-303J
Page:	1 of 7

1/7

FIG. 1.

FIG. 2.

Applicant:	Stein et al.
Title:	SINGLE INSTRUCTION MULTIPLE DATA ARRAY CELL
Attorney:	R. Stephen Rosenholm
Serial No.:	10/090,941
Docket No.:	AD-303J
Page:	2 of 7

2/7

COMMAND / DATA STREAM

FIG. 3.

FIG. 4.

Applicant: Stein et al.
Title: SINGLE INSTRUCTION MULTIPLE
DATA ARRAY CELL
Attorney: R. Stephen Rosenholm
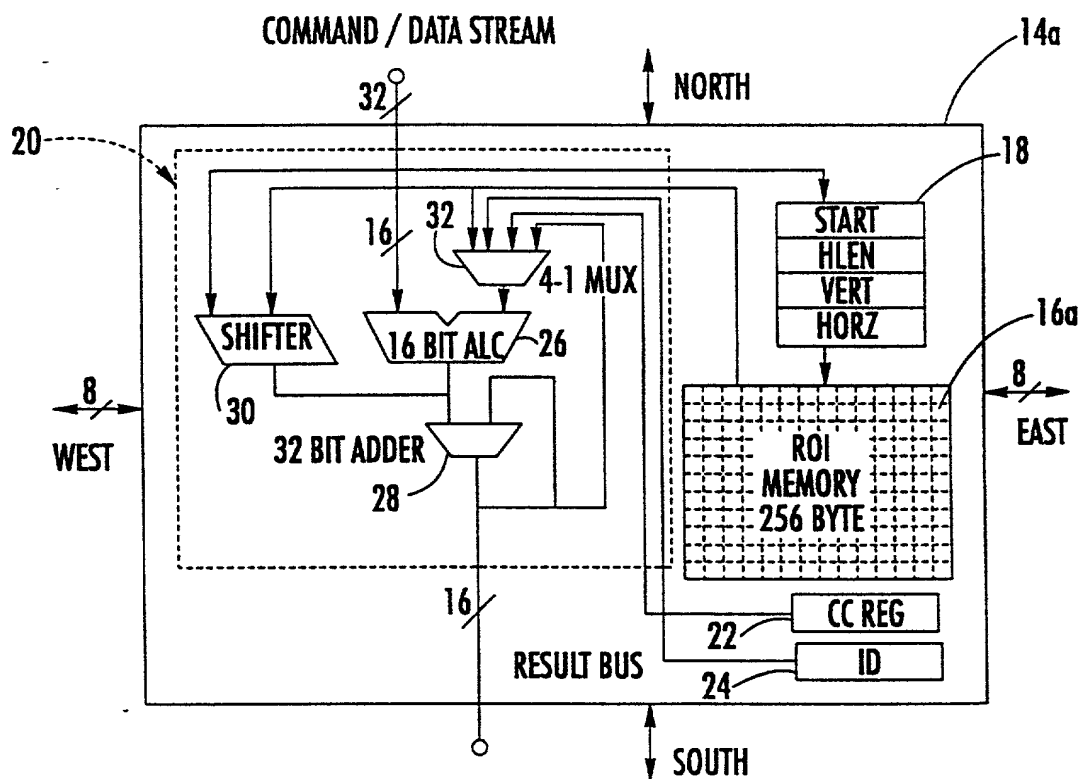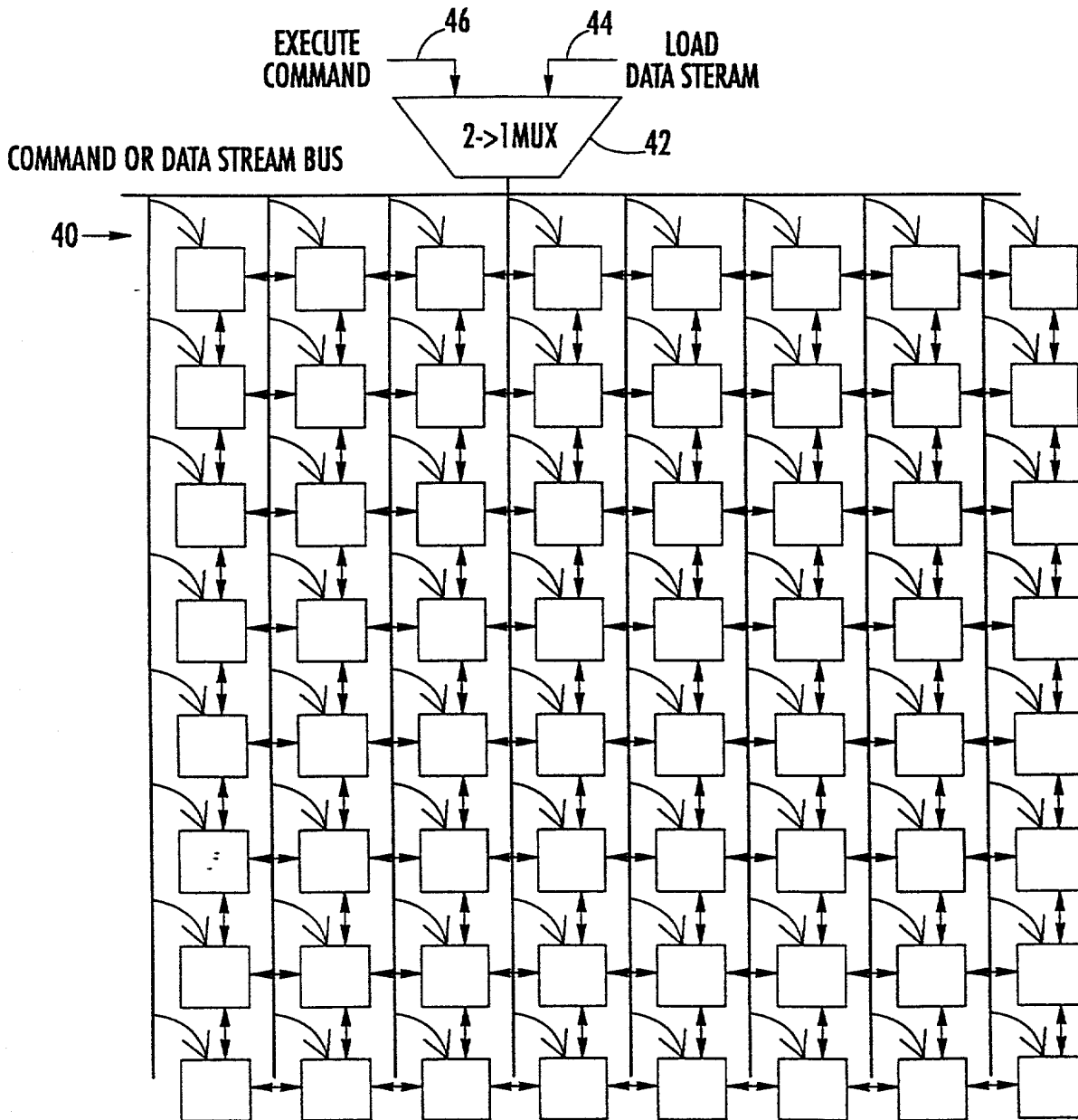Serial No.: 10/090,941
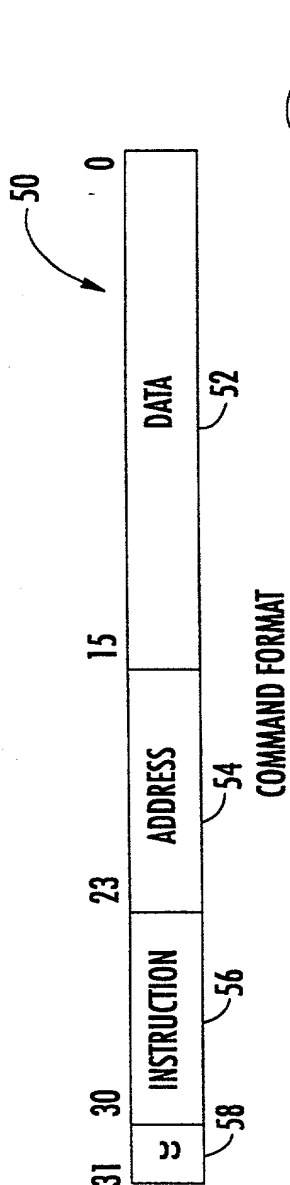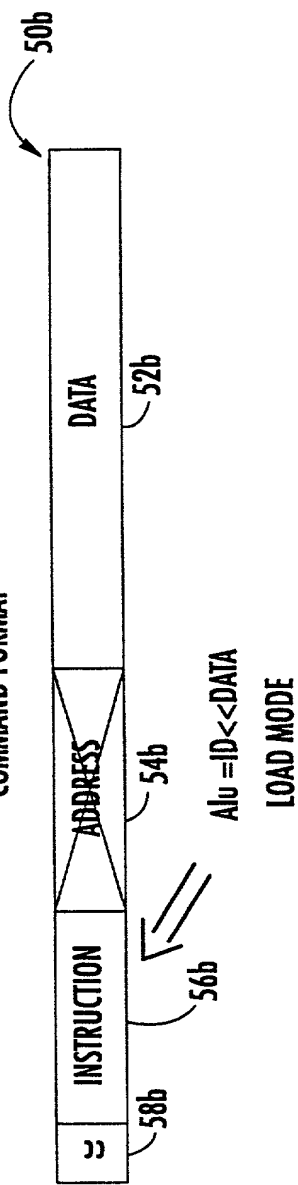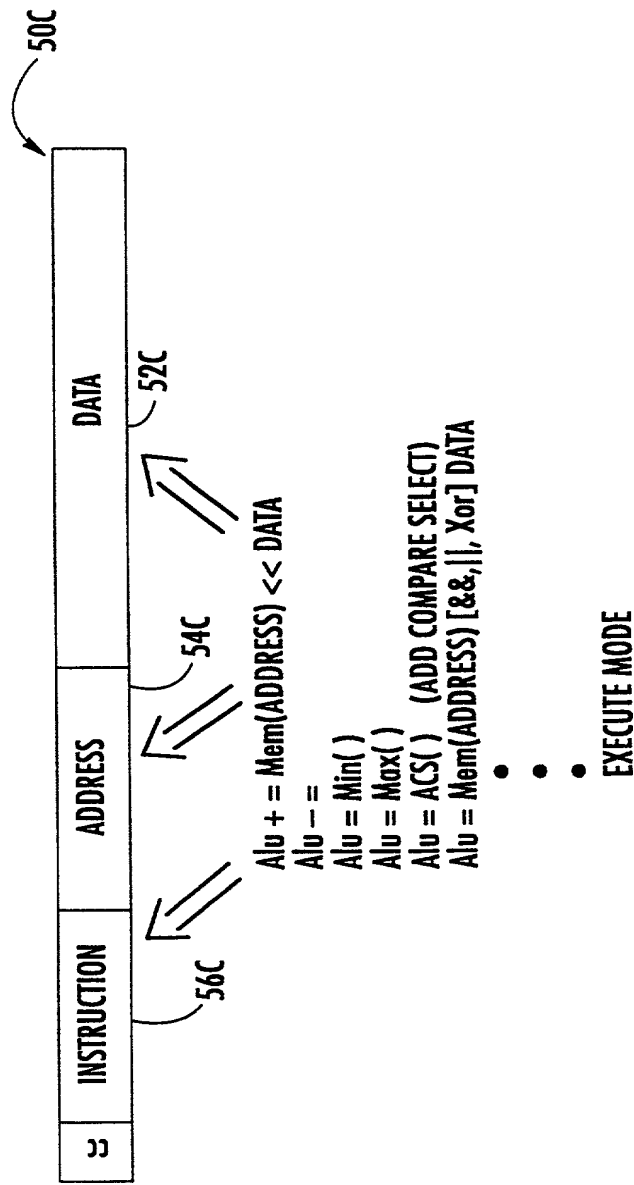Docket No.: AD-303J
Page: 4 of 7

4/7

FIG. 5.

31	30	23	15	0
;;	INSTRUCTION	ADDRESS	DATA	
58	56	54	52	

50

COMMAND FORMAT

FIG. 7.

;;	INSTRUCTION	ADDRESS	DATA	
58b	56b	54b	52b	

50b

Alu = ID << DATA

LOAD MODE

FIG. 9.

;;	INSTRUCTION	ADDRESS	DATA	
	56C	54C	52C	

50C

Alu + = Mem(ADDRESS) << DATA
Alu -- =
Alu = Min( )
Alu = Max( )
Alu = ACS( )   (ADD COMPARE SELECT)
Alu = Mem(ADDRESS) [&&, ||, Xor] DATA

· · · ·   EXECUTE MODE

Applicant: Stein et al.
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DATA ARRAY CELL
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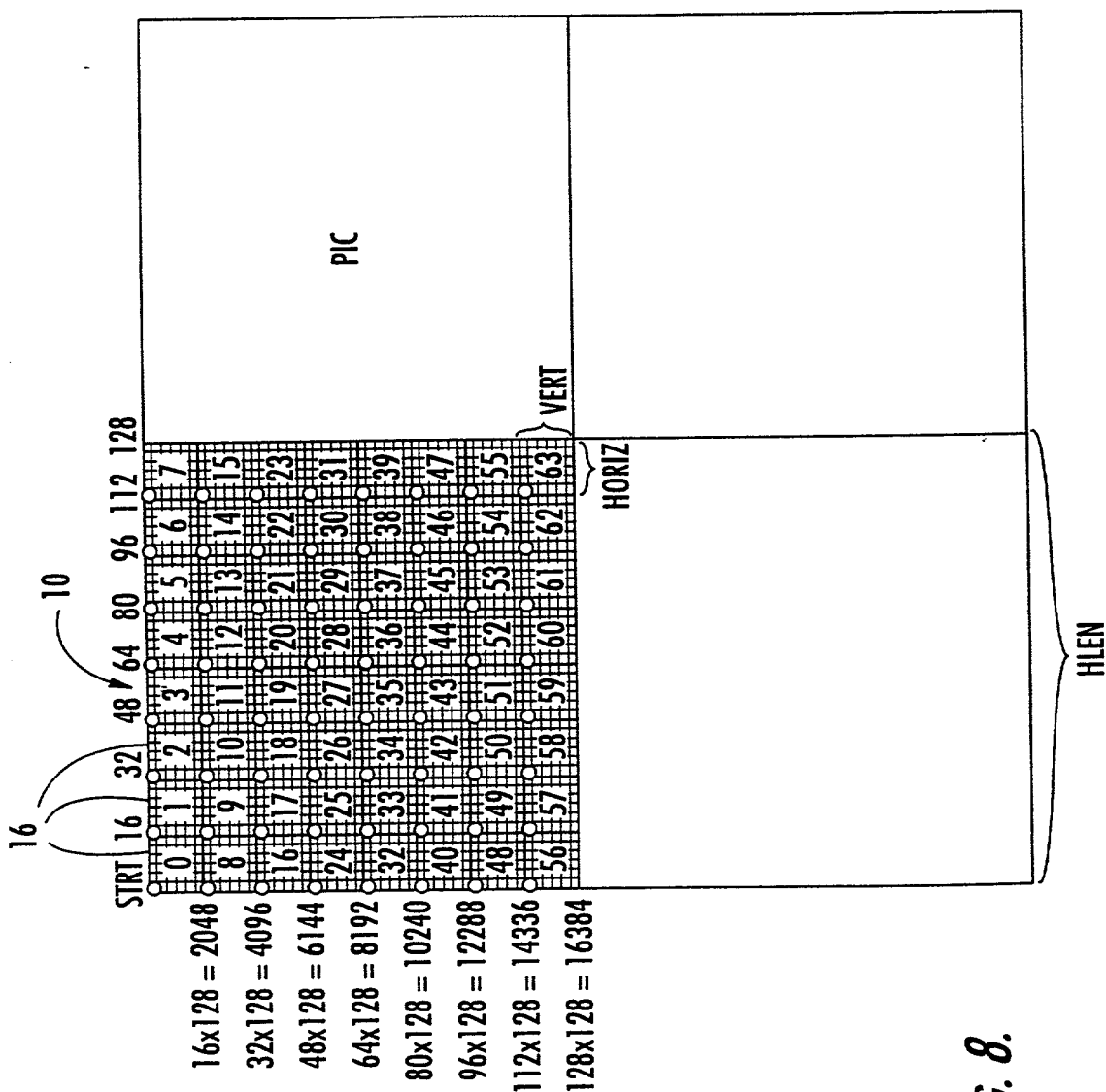Serial No.: 10/090,941
Docket No.: AD-303J
Page: 5 of 7

5/7

FIG. 8.

Applicant: Stein et al.
Title: SINGLE INSTRUCTION MULTIPLE
DATA ARRAY CELL
Attorney: R. Stephen Rosenholm
Serial No.: 10/090,941
Docket No.: AD-303J
Page: 6 of 7

6/7

FIG. 6.
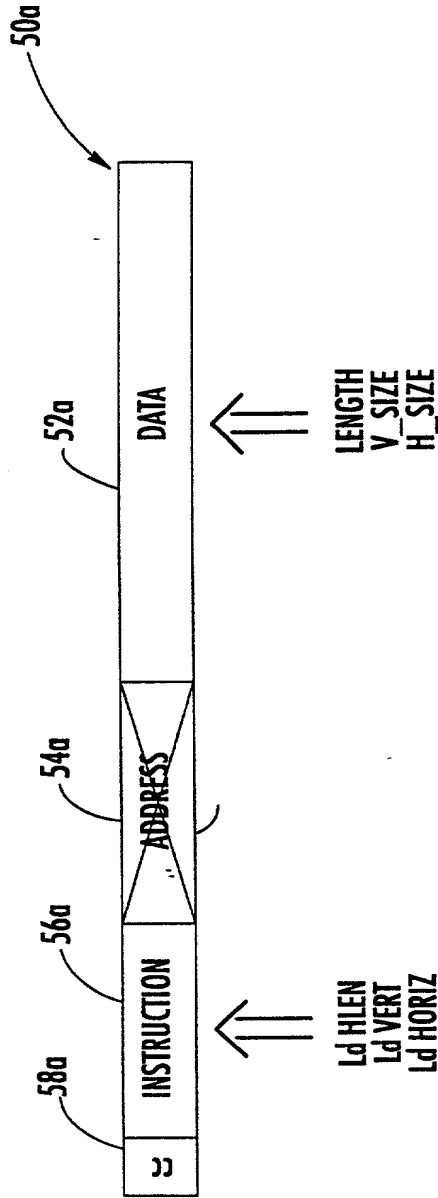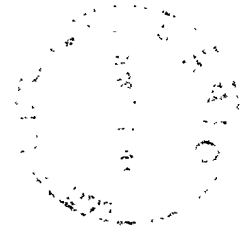
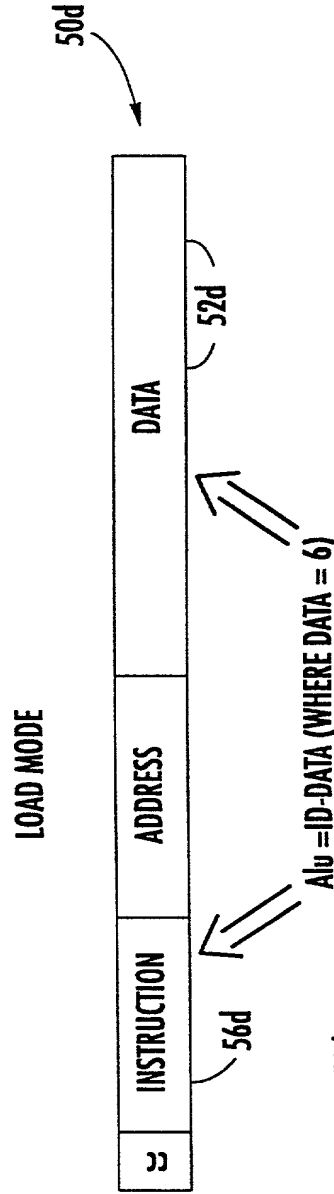50a

58a — 56a — 54a — 52a

`::` | INSTRUCTION | ADDRESS | DATA

Ld HLEN
Ld VERT
Ld HORIZ

LENGTH
V_SIZE
H_SIZE

FIG. 10.

50d

`::` | INSTRUCTION | ADDRESS | DATA

56d

52d

Alu =ID-DATA (WHERE DATA = 6)

LOAD MODE

FIG. 11.

50e

58d — 56d

`::` | INSTRUCTION | ADDRESS | DATA

IF GT SLEEP

CONDITION CODE

Applicant:	Stein et al.
Title:	SINGLE INSTRUCTION MULTIPLE DATA ARRAY CELL
Attorney:	R. Stephen Rosenholm
Serial No.:	10/090,941
Docket No.:	AD-303J
Page:	7 of 7

7/7

FIG. 12.